

TRANSPORTATION SYSTEM PLANNING

An Introduction for Citizen Representatives

Overview

- Why Adopt a TSP?
- What do TSPs do?
- Common TSP Elements
- TSP Development Process
- Transportation Planning Basics



Why Adopt
a TSP?

What do
TSPs do?

Common
TSP Elements

TSP
Development
Process

Transportation
Planning
Basics

- ❑ Required by the **Transportation Planning Rule (TPR)** OAR 660-012-0015
- ❑ Serves as the transportation element of a local comprehensive plan
- ❑ Provides long range direction for development of transportation facilities and services for all modes
- ❑ Ensures the planned systems are adequate to meet the needs of planned land uses
- ❑ Facilitates cost-effective use of public funds
- ❑ Demonstrates project need and readiness

Why Adopt
a TSP?

What do
TSPs do?

Common
TSP Elements

TSP
Development
Process

Transportation
Planning
Basics

What MUST a TSP do?

- ❑ Provide consistency with state and regional plans
- ❑ Establish an efficient network of arterials / collectors
- ❑ Standards for layout, spacing, and connectivity of local streets
- ❑ Protect facilities and corridors for intended uses
- ❑ Provide a public transportation plan to meet basic needs
- ❑ Network of sidewalks and bikeways linking residential areas to activity centers
- ❑ Finance program that is reasonably likely
- ❑ Implementing code and ordinances

Why Adopt
a TSP?

What do
TSPs do?

Common
TSP Elements

TSP
Development
Process

Transportation
Planning
Basics

What SHOULD a TSP do?

- ❑ Decisions consistent with community vision and expectation for future
- ❑ Support a variety of travel choices
- ❑ Serve all people in community
- ❑ Promote safe and secure travel
- ❑ Support local and state economy
- ❑ Minimize impacts to natural and built environment

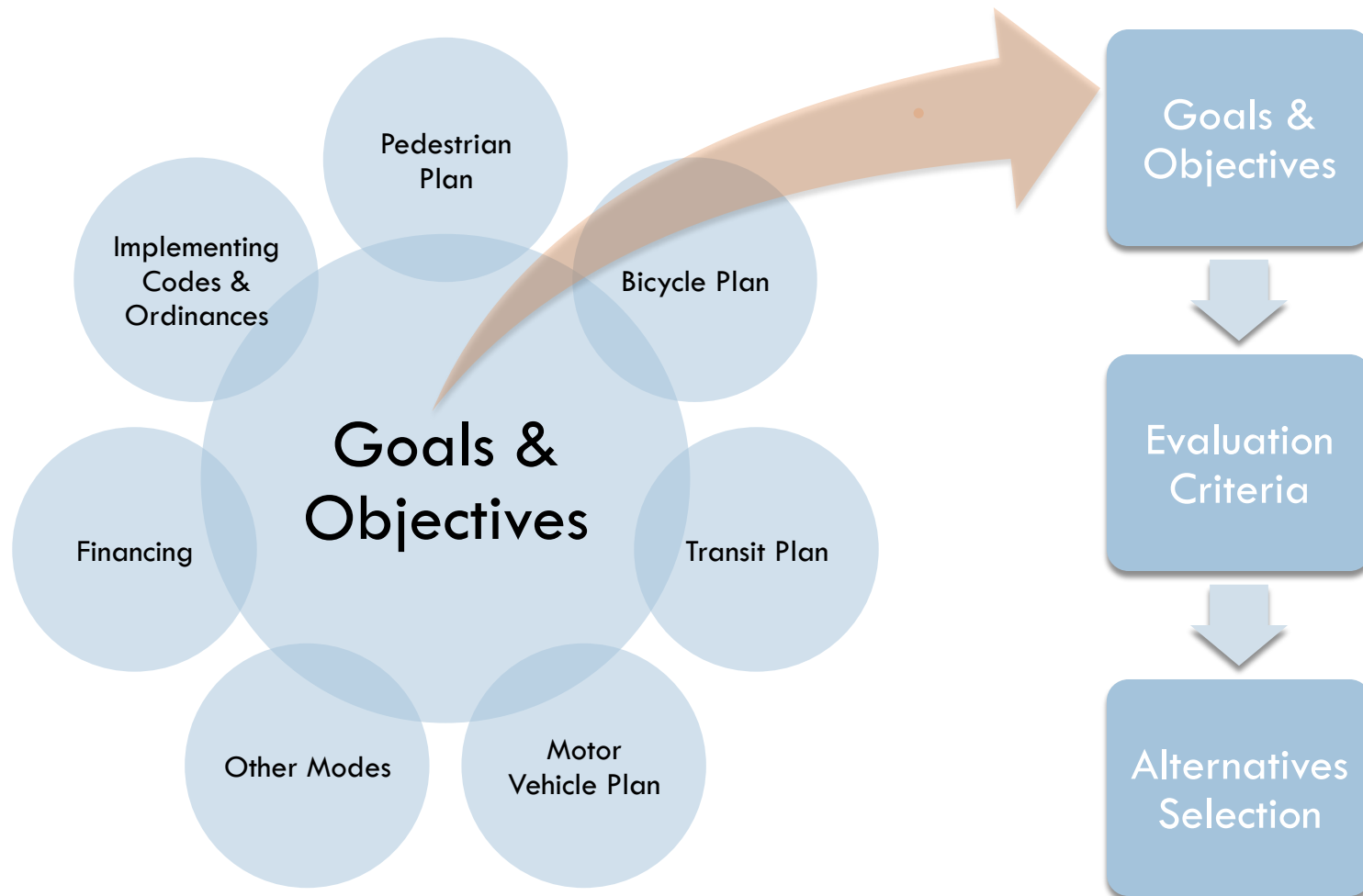
Why Adopt
a TSP?

What do
TSPs do?

Common
TSP Elements

TSP
Development
Process

Transportation
Planning
Basics



Why Adopt
a TSP?

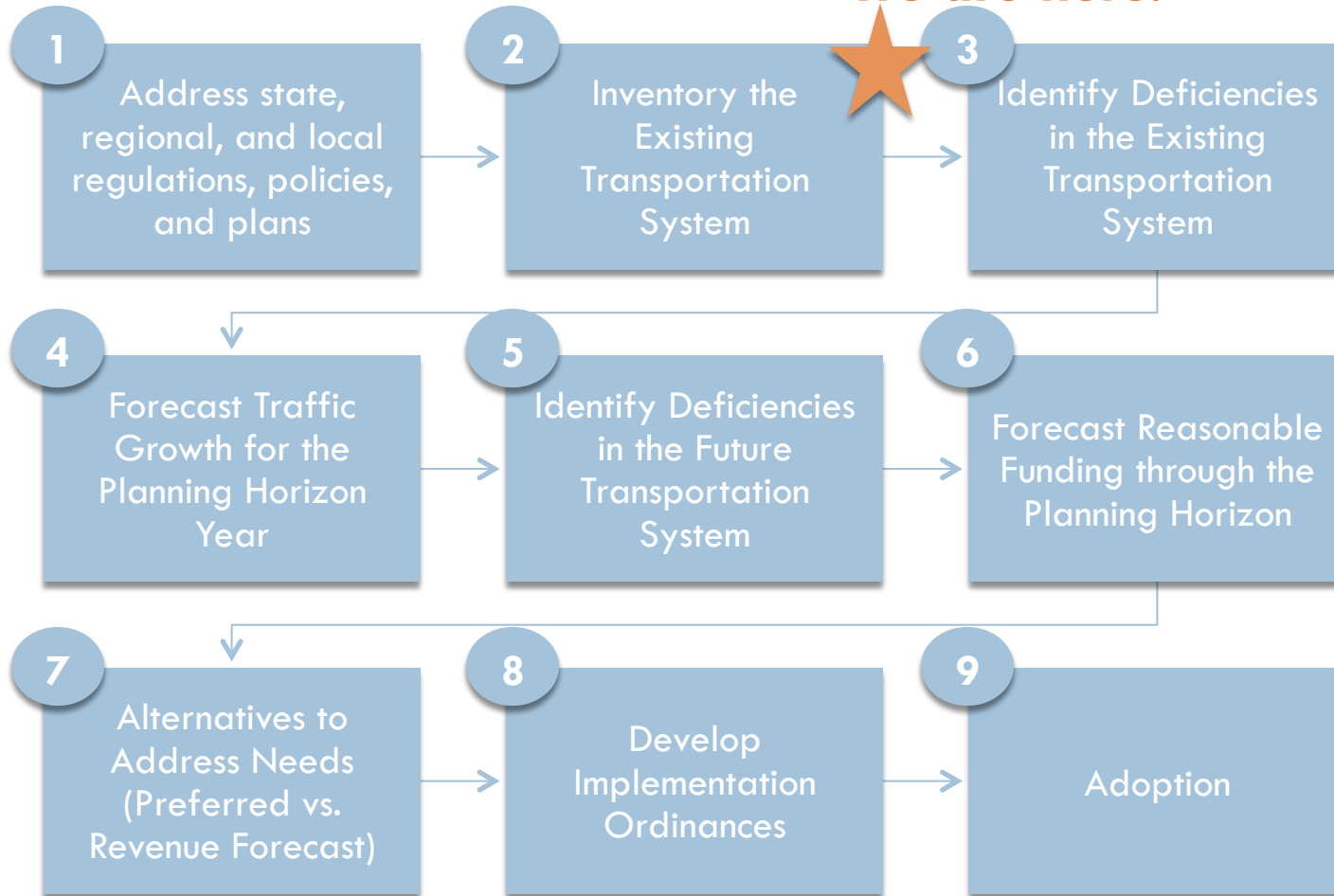
What do
TSPs do?

Common
TSP Elements

TSP
Development
Process

Transportation
Planning
Basics

We are here!



Why Adopt
a TSP?

What do
TSPs do?

Common
TSP Elements

TSP
Development
Process

Transportation
Planning
Basics

Pedestrians

- Sidewalks & Trails
- Out of Direction Travel
- Buffer in high-speed corridors
- Direct access from street



- Accessible facilities (ADA)
- Access to transit, parks, schools, shopping
- 1/2-mile primary radius

Why Adopt
a TSP?

What do
TSPs do?

Common
TSP Elements

TSP
Development
Process

Transportation
Planning
Basics

Bicycles

- Bike lanes = 5 to 6 feet
- Shoulder bikeways = 6 feet
- Separate facilities needed above 25 mph or 3,000 vehicles per day



Junction City TSP Update



- Provision of bike parking
- Well-defined, clean routes
- Bike Boxes, Bicycle Blvds, and more...

Why Adopt
a TSP?

What do
TSPs do?

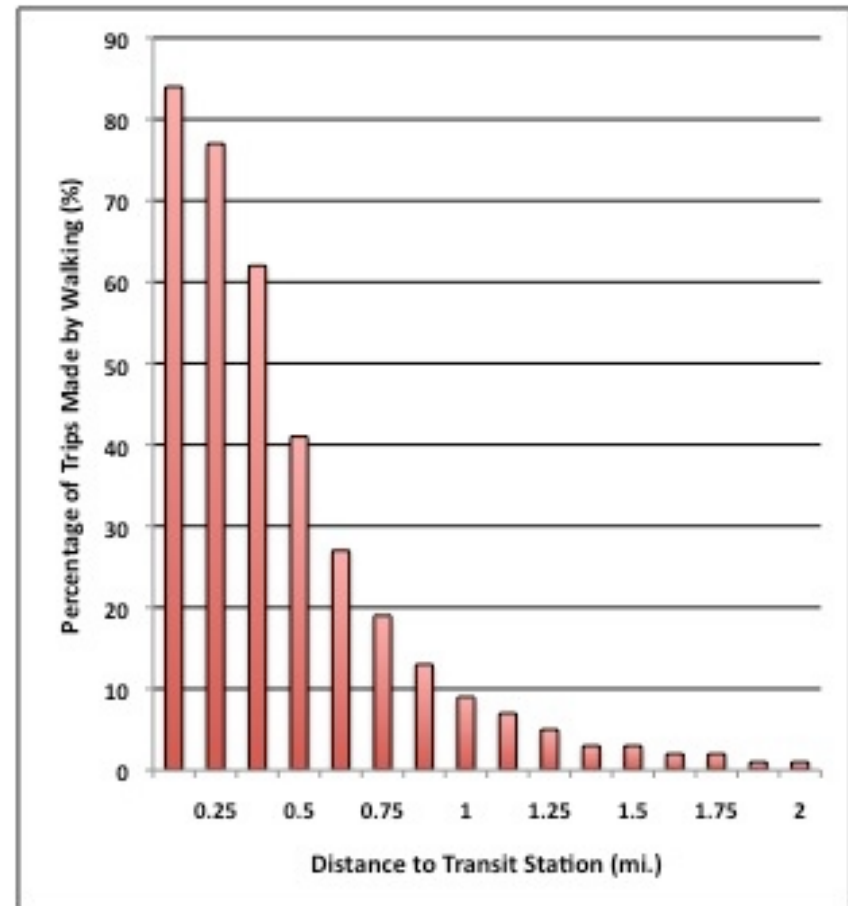
Common
TSP Elements

TSP
Development
Process

Transportation
Planning
Basics

Transit

- Make transit accessible
 - ▣ 1/4-mile for walking
 - ▣ 1/2-mile for biking
- Accommodate stop locations



Why Adopt
a TSP?

What do
TSPs do?

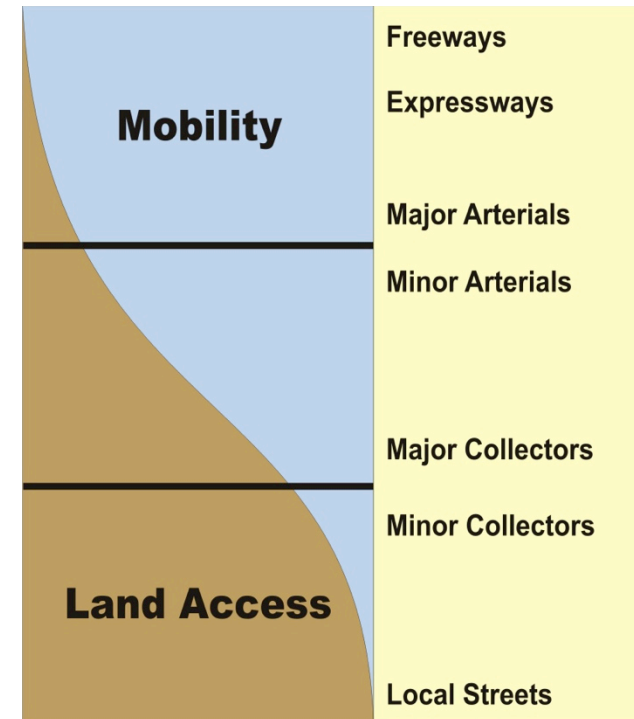
Common
TSP Elements

TSP
Development
Process

Transportation
Planning
Basics

Roadway Functional Classifications

- Hierarchy system to achieve mobility and accessibility
- Determined by characteristics:
 - ▣ Function
 - ▣ Access density
 - ▣ Traffic demands
 - ▣ Trip length
 - ▣ Expected speed



Why Adopt
a TSP?

What do
TSPs do?

Common
TSP Elements

TSP
Development
Process

Transportation
Planning
Basics

Roadway Functional Classifications

Minor Arterial



Collector



Why Adopt
a TSP?

What do
TSPs do?

Common
TSP Elements

TSP
Development
Process

Transportation
Planning
Basics

Motor Vehicle Mobility

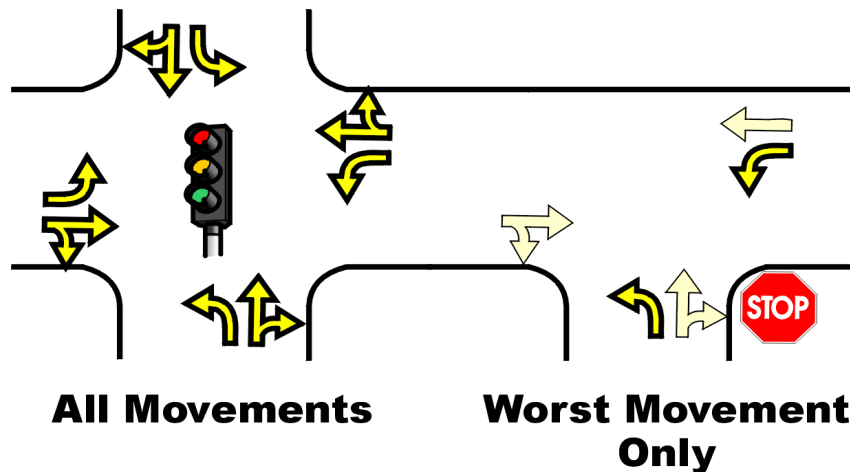
□ Commonly measured by:

▣ Delay (level of service)

- Example: “This intersection is operating at LOS C.”

▣ Percent of capacity (v/c ratio)

- Example: “This intersection is operating at a v/c ratio of 0.80.”



Why Adopt
a TSP?

What do
TSPs do?

Common
TSP Elements

TSP
Development
Process

Transportation
Planning
Basics

Safety

- and severity)
- Sight Distance
- Geometric Deficiencies



Why Adopt
a TSP?

What do
TSPs do?

Common
TSP Elements

TSP
Development
Process

Transportation
Planning
Basics

Non-capacity related strategies

Transportation Systems Management (TSM)

- ❑ Signal Timing
- ❑ Access Management
- ❑ Traffic Calming
- ❑ Connectivity
- ❑ Functional Classification System

Transportation Demand Management (TDM)

- ❑ Employee Shift Management
- ❑ Telecommuting
- ❑ Transit
- ❑ Walking and Biking Programs
- ❑ Carpooling



Ready to begin?